

Safety Data sheet

According to Directive 1907/2006

1048 METHANOL solution with 7% Nitric acid 65%

Creation Date: 26/02/2014 Revision date: 31/05/2017

1. Identification of the substance/preparation and of the company/undertaking

Identification of the product

Catalogue No: 1048 Product name: METHANOL solution with 7% Nitric acid 65% Use of the substance: Analysis and chemical-pharmaceutical production.

Company/undertaking identification

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2. Hazards identification

Labelling in accordance with directive 1907/2006



R-phrases

11 Highly flammable

34 Causes burns.

23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

39/23/24/25 Toxic: danger of very serious irreversible effects through, inhalation, in contact with skin

S-phrases

1/2 Keep locked up and out of the reach of children.

16 Keep away from sources of ignition - No smoking.

36/37 Wear suitable protective clothing and gloves.

45 In case of accident or if you feel unwell, seek medical advice immediately. (Show the label where poss

7 Keep container tightly closed.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Labelling in accordance with directive 1272/2008

**H-phrases**

225 Highly flammable liquid and vapour.
331 Toxic if inhaled.
311 Toxic in contact with skin.
301 Toxic if swallowed.
370 Causes damage to organs.
319 Causes serious eye irritation.
315 Causes skin irritation.

P-phrases

210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with
309+311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
302+352 IF ON SKIN: Wash with plenty of soap and water.
305+351 If in eyes: Rinse cautiously with water for several minutes.
338 Remove contact lenses, if present and easy to do. Continue rinsing.

Signal word : DANGER

HIGHLY FLAMMABLE; TOXIC; IRRITANT

R-phrases:

Highly flammable

Causes burns.

Toxic by inhalation, in contact with skin and if swallowed.

Toxic: danger of very serious irreversible effects through, inhalation, in contact with skin and if swallowed.

3. Composition/information on ingredients

Short hazard description

NITRIC ACID 65% w/w (CAS-Nr. 7697-37-2, EINECS-Nr. 231-714-2) 5-10 %

R-Phrases: 8; 35

CORROSIVE

METHANOL (CAS-Nr. 67-56-1, EINECS-Nr. 200-659-6) 90-95 %

R-Phrases: 11; 23/24/25; 39/23/24/25

HIGHLY FLAMMABLE; TOXIC

For the full text of the R phrases mentioned in this section, see Section 16.

R-phrases 11; 34; 23/24/25; 39/23/24/25

For more information about the R-Phrases text you can consult the paragraph 16

4. First aid measures

After inhalation:

Fresh air

If necessary, artificial respiration

Give oxygen by specialized people

Call the physician

After skin contact:
Rinse with abundant water (or have a shower)
Get rid of the contaminated clothes

After eye contact:

Rinse with abundant water, keeping eyelids open (at least 10 min)
Call the ophthalmologist

After swallowing:

Drink lots of water
To cause vomit
To drink alcohol (1 glass, over 40%)
Call the doctor

5. Fire-fighting measures

Suitable extinguishing media:

Dust
Foam
Carbon dioxide

Special risks:

Combustible
Steam heavier than air
Possible formation of explosive mixtures with air
Backfiring
Ambient fire may liberate hazardous vapours

Special protective equipment for fire fighting:

Remain in the risk area only if provided with independent artificial respiratory systems.
In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.
Wear suitable protective clothing

Other information:

Avoid the penetration of the extinction water in superficial or subterranean aquifers.

6. Accidental release measures

Person-related precautionary measures:

Not to inhale steam/aerosols
Avoid contact with the substance
Ventilation in closed spaces

Procedures for cleaning/absorption:

Take up with liquid-absorbent and neutralizing material
To come to the elimination of the remainders
Rinse.

Environmental protection measures:

Do not allow to enter sewerage system
Risk of explosion

7. Handling and storage

Handling:

Avoid electrostatic load
Keep away from sources of ignition
Work under display cabinet extractor
Do not inhale the substance
Avoid generation of steams

Storage:

Well closed
In well-ventilated place
Moved away of sources of ignition and heat
Storage temperature: ambient

8. Exposure controls/personal protection

Exposure limit control

NITRIC ACID 65% w/w

TLV-TWA: 5 mg/m³; TLV-STEL: 10 mg/m³ (pure substance)

METHANOL

TLV-TWA: 200 ppm (266 mg/m³). TLV-STEL: 250 ppm (333 mg/m³).

Personal protective equipment:

Respiratory protection:

Necessary when steam/aerosols are generated

Hand protection:

Protection gloves:

Butyl rubber

Viton

Eye protection:

Needed

Skin and body protection:

Protective clothing against flames

Antistatic clothes

Other protective equipment:

Change immediately contaminated clothes

Recommendable preventive protection of the skin

Wash hands and face when the work is finished

Neither to eat, nor to drink, nor to smoke during the work

Work under extractor

Do not inhale the substance

Fulfill the commitments under local environmental protection legislation

9. Physical and chemical properties

Physical state: Liquid

Colour: Colourless

Odour: Characteristic

Melting point: -90°C

Boiling point: 68°C

Flash point: 11°C

Density (g/cm³): 0,810

Solubility: Soluble (water)

10. Stability and reactivity

Substances to be avoided:

Alkaline-earth metals.

Halogens.

Zinc diethyl.

Alkaline metals.
Hydride.
Oxidizing agents.
Hydrogen peroxide.
Alkaline-earth metals.
Aldehydes.
Amines.
Ammonia.
Alkaline salts.
Metal and metal alloys.
Metal oxides.
Nitrogen organic compounds.
Acetylides.
Ketonas.
Alcoholates.
Combustible substances.
Phosphorus.
Nonmetallic halides.
Nonmetallic oxides.

Hazardous decomposition products:

Nitrous gases.
Carbon monoxide.
Carbon dioxide.

Further information:

To avoid heating.
Explosible with air in a vaporous/gaseous state.
Incompatible with various plastics.
Incompatible with aluminium and zinc alloys.

11. Toxicological information

Acute toxicity:

LD50 (oral, rat): 5628 mg/kg (methanol, pure substance)

After eye contact:

Burns

After skin contact:

Risk of cutaneous absorption

Burns

After inhalation:

Irritation of: respiratory tract

After long contact:

Agitation

Narcosis

Acidosis

Spasms

Hypotension

Coma

Due to absorption:

Headache

Nausea

Vomiting

Inebriation

Impaired vision

Blindness

After swallowing:

Absorption

Irritations

Burns of mucous membranes

Further toxicological information:

Non carcinogenic in animal experiments
The precautions adapted for chemical agents must be observed

12. Ecological information

Fishes: *Lepomis macrochirus*: LC50: 15400 mg/l/96h (pure methanol)

Daphnia: *Daphnia magna*: EC50: > 10000 mg/l/48h (pure methanol)

Algae: *Scenedesmus quadricauda*: IC5: 8000 mg/l/8d (pure methanol)

Bacteria: *Pseudomonas putida*: EC5: 6600 mg/l/16h (pure methanol)

Other harmful effects:

Do not allow to enter waters, waste water, or soil

Harmful effect on aquatic organisms

When used properly, no impairments in the function of waste-water-treatment plants are to be expected

Harmful effect due to pH shift

13. Disposal considerations**Product:**

Dispose as regulated in the community countries by local regulations.
Please contact with the suitable authority in each case (Public Administration or company specialized in

Packaging:

Product packaging disposal must be disposed of in compliance with the respective local regulations.
For contaminated packaging the same measures must be adopted as for the contaminated product.
Not contaminated packaging must be disposed of as domestic residues or recycled material.
European Directive 94/62/EC of 20 December 1994 on packaging and packaging waste

14. Transport information**Overland transport ADR/RID**

UN: 3286
Class: 3 (6.1) (8)
Packaging group: II
Correct technical name: FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.

Sea transport IMDG

UN: 3286
Class: 3/II (6.1) (8)
Packaging group: II
Correct technical name: FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.

Air transport ICAO-IATA-DGR

UN: 3286
Class: 3 (6.1) (8)
Packaging group: II
Correct technical name: FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.
CAO: 363
PAX: 352

15. Regulatory information

16. Other information

Full text of R phrases mentioned in sections 2 and 3

8 Contact with combustible material may cause fire.

35 Causes severe burns.

11 Highly flammable

23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

39/23/24/25 Toxic: danger of very serious irreversible effects through, inhalation, in contact with skin

34 Causes burns.

The information contained herein is based on the present state of our knowledge.

It characterizes the product with regard to appropriate safety precautions. It does not represent a guaranty of the properties of the product.